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Imagery analysis report

**Japanese Troposcatter Communication
System Identified in the USSR**

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JAPANESE TROPOSCATTER COMMUNICATION SYSTEM IDENTIFIED IN THE USSR

1. According to open-source literature, in 1975 the Soviets acquired a Japanese troposcatter communication system to be deployed at Tiksi, near Kular Mountain, and at Deputatskiy and at radio relay (radrel) stations near Kazachye, Ust-Kuyga, and Deputatskiy (Figure 1). The Japanese troposcatter system consists of circular, fine-mesh, 19-meter parabolic dish antennas. To date, the system has been identified at Tiksi and at Kular Mountain.

2. Tiksi Troposcatter Station consists of one pair of 19-meter troposcatter dish antennas, one pair of Type IIA troposcatter antennas oriented 70 degrees, two pairs of Type II troposcatter antennas oriented 300 degrees, one transmitter building, two control buildings, and seven support buildings. The 19-meter dish antennas were first observed in February 1978. The correspondent for the 19-meter antennas is the Kular Mountain station, 129 nautical miles away.

3. Kular Mountain Radrel Troposcatter Station was first identified in December 1979. A review of earlier imagery revealed the existence of the station. The station consists of one pair of 19-meter troposcatter dish antennas, a self-supporting lattice tower with two 4-meter parabolic dishes oriented 50 and 160 degrees, one control building, and two support buildings. The correspondent for the troposcatter antennas is the Tiksi station.

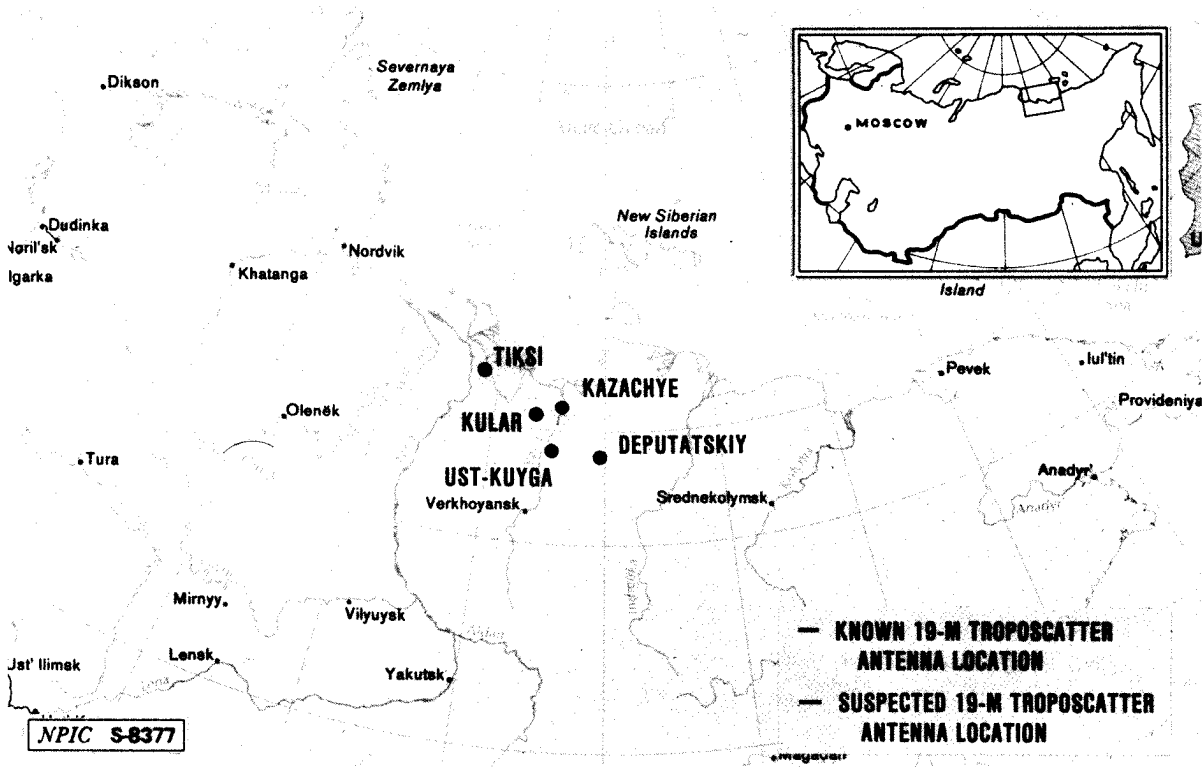


FIGURE 1. LOCATIONS OF JAPANESE TROPOSCATTER COMMUNICATION SYSTEM IN THE USSR

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REFERENCES

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DOCUMENT

1. COCOM via Dept of State. Coordinating Committee Document (75) 1858, *Memorandum by Japanese Delegation for Export of Microwave Communication System and Measuring Equipment to the USSR*, Sep 75 (CONFIDENTIAL)



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